

(continued from outside back cover)

The resourcefulness of p(4-VP) cryogels as template for in situ nanoparticle preparation of various metals and their use in H <sub>2</sub> production, nitro compound reduction and dye degradation N. Sahiner, S. Yildiz and H. Al-Lohedan (Saudi Arabia, Turkey) . . . . .	145
Pt electrodeposited over carbon nano-networks grown on carbon paper as durable catalyst for PEM fuel cells E. Negro, R. Latsuzbaia, M. Dieci, I. Boshuizen and G.J.M. Koper (The Netherlands) . . . . .	155
Influence of copper on nickel-based catalysts in the conversion of glycerol B.C. Miranda, R.J. Chimentão, J. Szanyi, A.H. Braga, J.B.O. Santos, F. Gispert-Guirado, J. Llorca and F. Medina (Spain, Costa Rica, USA, Brazil, Ecuador) . . . . .	166
In-situ DRIFTS measurements for the mechanistic study of NO oxidation over a commercial Cu-CHA catalyst M.P. Ruggeri, I. Nova, E. Tronconi, J.A. Pihl, T.J. Toops and W.P. Partridge (Italy, USA) . . . . .	181
SnO <sub>2</sub> -core carbon-shell composite nanotubes with enhanced photocurrent and photocatalytic performance P. Zhang, L. Wang, X. Zhang, C. Shao, J. Hu and G. Shao . . . . .	193
Catalytic gasification of indole in supercritical water Y. Guo, S. Wang, T. Yeh and P.E. Savage (P.R. China, USA) . . . . .	202
NO <sub>x</sub> conversion properties of a novel material: Iron nanoparticles stabilized in carbon M. Busch, A. Kompch, S. Suleiman, C. Notthoff, U. Bergmann, R. Theissmann, B. Atakan and M. Winterer (Germany) . . . . .	211
Preparation of 3D reticulated ZnO/CNF/NiO heteroarchitecture for high-performance photocatalysis C. Luo, D. Li, W. Wu, C. Yu, W. Li and C. Pan (China) . . . . .	217
An investigation of WC stability during the preparation of Pt@WC/OMC via a pulse microwave assisted polyol method K. Wang, Z. Pan, F. Tzorbatozoglou, Y. Zhang, Y. Wang, P. Tsiakaras and S. Song (China, Greece) . . . . .	224
Fabrication of P25/Ag <sub>3</sub> PO <sub>4</sub> /graphene oxide heterostructures for enhanced solar photocatalytic degradation of organic pollutants and bacteria X. Yang, J. Qin, Y. Jiang, K. Chen, X. Yan, D. Zhang, R. Li and H. Tang (China) . . . . .	231
Photodegradation of the anthraquinonic dye Acid Green 25 by TiO <sub>2</sub> immobilized on carbonized avocado kernels: Intermediates and toxicity M.M. Dávila-Jiménez, M.P. Elizalde-González, E. García-Díaz, V. Marín-Cevada and J. Zequineli-Pérez (Mexico) . . . . .	241
Noble metal modified reduced graphene oxide/TiO <sub>2</sub> ternary nanostructures for efficient visible-light-driven photoreduction of carbon dioxide into methane L.-L. Tan, W.-J. Ong, S.-P. Chai and A.R. Mohamed (Malaysia) . . . . .	251
Effect of Cu substitution on promoted benzene oxidation over porous CuCo-based catalysts derived from layered double hydroxide with resistance of water vapor S. Li, H. Wang, W. Li, X. Wu, W. Tang and Y. Chen (PR China) . . . . .	260
Covalently functionalized TiO <sub>2</sub> with ionic liquid: A high-performance catalyst for photoelectrochemical water oxidation L. Jing, M. Wang, X. Li, R. Xiao, Y. Zhao, Y. Zhang, Y.-M. Yan, Q. Wu and K. Sun (People's Republic of China) . . . . .	270
Chemical deactivation of H-BEA and Fe-BEA as NH <sub>3</sub> -SCR catalysts—effect of potassium S. Shwan, J. Jansson, L. Olsson and M. Skoglundh (Sweden) . . . . .	277
Preparation of fiber-based plasmonic photocatalyst and its photocatalytic performance under the visible light L. Chen, S. Yang, B. Hao, J. Ruan and P.-C. Ma (China) . . . . .	287
Modelling the photo-Fenton oxidation of the pharmaceutical paracetamol in water including the effect of photon absorption (VRPA) A. Cabrera Reina, L. Santos-Juanes, J.L. García Sánchez, J.L. Casas López, M.I. Maldonado Rubio, G. Li Puma and J.A. Sánchez Pérez (Spain, UK) . . . . .	295
Increased co-oxidation activity for mercury under hot and cold site coal power plant conditions - Preparation and evaluation of Au/TiO <sub>2</sub> -coated SCR-DeNO <sub>x</sub> catalysts B.-A. Dranga and H. Koeser (Germany, Romania) . . . . .	302
Role of CeO <sub>2</sub> as oxygen promoter in the accelerated photocatalytic degradation of phenol over rutile TiO <sub>2</sub> Z. Li, J. Sheng, Y. Zhang, X. Li and Y. Xu (PR China) . . . . .	313
SrTiO <sub>3</sub> single crystals enclosed with high-indexed {0 2 3} facets and {0 0 1} facets for photocatalytic hydrogen and oxygen evolution B. Wang, S. Shen and L. Guo (China) . . . . .	320
Quantitative conversion of triglycerides to hydrocarbons over hierarchical ZSM-5 catalyst H. Chen, Q. Wang, X. Zhang and L. Wang (China) . . . . .	327
Steam reforming of simulated biogas over plate Ni—Cr catalysts: Influence of pre-oxidation on catalytic activity Q.T.P. Bui, Y. Kim, S.P. Yoon, J. Han, H.C. Ham, S.W. Nam and C.W. Yoon (Republic of Korea) . . . . .	335
In situ synthesis of ZnO/ZnTe common cation heterostructure and its visible-light photocatalytic reduction of CO <sub>2</sub> into CH <sub>4</sub> M.F. Ehsan and T. He (China) . . . . .	345
Zeolites Y modified with palladium as effective catalysts for low-temperature methanol incineration M. Jabłońska, A. Król, E. Kukulska-Zajac, K. Tarach, V. Girmán, L. Chmielarz and K. Góra-Marek (Poland, Slovakia) . . . . .	353
Visible light photoactivity enhancement via CuTCPP hybridized g-C <sub>3</sub> N <sub>4</sub> nanocomposite D. Chen, K. Wang, W. Hong, R. Zong, W. Yao and Y. Zhu (China, PR China) . . . . .	366
Photocatalytic carbon oxidation with nitric oxide L. Liao, S. Heylen, B. Vallaey, M. Keulemans, S. Lenaerts, M.B.J. Roefsaers and J.A. Martens (Belgium) . . . . .	374
Structural and electronic effects in bimetallic PdPt nanoparticles on TiO <sub>2</sub> for improved photocatalytic oxidation of CO in the presence of humidity O. Rosseler, C. Ulhaq-Bouillet, A. Bonnefont, S. Pronkin, E. Savinova, A. Louvet, V. Keller and N. Keller (France) . . . . .	381
Catalytic combustion of 1,2-dichlorobenzene at low temperature over Mn-modified Co <sub>3</sub> O <sub>4</sub> catalysts T. Cai, H. Huang, W. Deng, Q. Dai, W. Liu and X. Wang (PR China) . . . . .	393
A simple route for preparation of textured WO <sub>3</sub> thin films from colloidal W nanoparticles and their photoelectrochemical water splitting properties S. Emin, M. de Respinis, M. Fanetti, W. Smith, M. Valant and B. Dam (Slovenia, The Netherlands) . . . . .	406
Catalytic performance of different carbon materials for hydrogen production in sulfur-iodine thermochemical cycle Y. Zhang, R. Wang, X. Lin, Z. Wang, J. Liu, J. Zhou and K. Cen (China) . . . . .	413

Efficient visible light-induced $H_2$ production by Au@CdS/TiO <sub>2</sub> nanofibers: Synergistic effect of core-shell structured Au@CdS and densely packed TiO <sub>2</sub> nanoparticles M. Kim, Y.K. Kim, S.K. Lim, S. Kim and S.-I. In (Republic of Korea) . . . . .	423
Synthesis, characterization and study of lanthanum phosphates as light alcohols dehydration catalysts T.T.N. Nguyen, V. Ruau, L. Massin, C. Lorentz, P. Afanasiev, F. Maugé, V. Bellière-Baca, P. Rey and J.M.M. Millet (France) . . . . .	432
Noble-metal-free MoS <sub>2</sub> co-catalyst decorated UiO-66/CdS hybrids for efficient photocatalytic $H_2$ production L. Shen, M. Luo, Y. Liu, R. Liang, F. Jing and L. Wu (PR China) . . . . .	445
Influence of mediated processes on the removal of Rhodamine with conductive-diamond electrochemical oxidation D.M. de Araújo, C. Sáez, C.A. Martínez-Huitle, P. Cañizares and M.A. Rodrigo (Brazil, Spain) . . . . .	454
Direct cleavage of sorbitol from oligosaccharides via a sequential hydrogenation-hydrolysis pathway L. Negahdar, P.J.C. Hausoul, S. Palkovits and R. Palkovits (Germany) . . . . .	460
Selective catalytic reduction of NO <sub>x</sub> with C <sub>3</sub> H <sub>8</sub> using Co-ZSM5 and Co-MOR as catalysts: A model to account for the irreversible deactivation promoted by H <sub>2</sub> O A. Martínez-Hernández, G.A. Fuentes and S.A. Gómez (Mexico) . . . . .	465
Highly photo-catalytically active hierarchical 3D porous/urchin nanostructured Co <sub>3</sub> O <sub>4</sub> coating synthesized by Pulsed Laser Deposition R. Edla, N. Patel, M. Orlandi, N. Bazzanella, V. Bello, C. Maurizio, G. Mattei, P. Mazzoldi and A. Miotello (Italy, India) . . . . .	475
Highly loaded well dispersed stable Ni species in Ni <sub>x</sub> Mg <sub>2</sub> AlO <sub>y</sub> nanocomposites: Application to hydrogen production from bioethanol W. Fang, S. Paul, M. Capron, A.V. Biradar, S.B. Umbarkar, M.K. Dongare, F. Dumeignil and L. Jalowiecki-Duhamel (France, India) . . . . .	485
Iron oxides semiconductors are efficient for solar water disinfection: A comparison with photo-Fenton processes at neutral pH C. Ruales-Lonfat, J.F. Barona, A. Sienkiewicz, M. Bensimon, J. Vélez-Colmenares, N. Benítez and C. Pulgarín (Switzerland, Colombia) . . . . .	497
Dynamics of N <sub>2</sub> and N <sub>2</sub> O peaks during and after the regeneration of lean NO <sub>x</sub> trap D. Mráček, P. Kočí, M. Marek, J.-S. Choi, J.A. Pihl and W.P. Partridge (Czech Republic, USA) . . . . .	509
Highly active Au-CeO <sub>2</sub> @ZrO <sub>2</sub> yolk-shell nanoreactors for the reduction of 4-nitrophenol to 4-aminophenol V. Evangelista, B. Acosta, S. Miridonov, E. Smolentseva, S. Fuentes and A. Simakov (Mexico) . . . . .	518
A rotating disk study of the photocatalytic oxidation of <i>p</i> -nitrophenol on phosphorus-modified TiO <sub>2</sub> photocatalyst D. Méndez, R. Vargas, C. Borrás, S. Blanco, J. Mostany and B.R. Scharifker (Venezuela) . . . . .	529
Performance of bifunctional CuO-CeO <sub>2</sub> /γ-Al <sub>2</sub> O <sub>3</sub> catalyst in dimethoxymethane steam reforming to hydrogen-rich gas for fuel cell feeding A.A. Pechenkin, S.D. Badmaev, V.D. Belyaev and V.A. Sobyatin (Russia) . . . . .	535
Decomposition of methyl orange using C <sub>60</sub> fullerene adsorbed on silica gel as a photocatalyst via visible-light induced electron transfer R. Wakimoto, T. Kitamura, F. Ito, H. Usami and H. Moriwaki (Japan) . . . . .	544
Construction of Cu/ZrO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> composites for ethanol synthesis: Synergies of ternary sites for cascade reaction Y. Zhu, X. Kong, S. Zhu, F. Dong, H. Zheng, Y. Zhu and Y.-W. Li (PR China) . . . . .	551
On the role of triethylene glycol in the preparation of highly active Ni-Mo/Al <sub>2</sub> O <sub>3</sub> hydrosulfurization catalysts: A spectroscopic study A. Gutiérrez-Alejandre, G. Laurabaquio-Rosas, J. Ramírez and G. Busca (Mexico, Italy) . . . . .	560
Impact of sulfur oxide on NH <sub>3</sub> -SCR over Cu-SAPO-34 K. Wijayanti, S. Andonova, A. Kumar, J. Li, K. Kamasamudram, N.W. Currier, A. Yezerets and L. Olsson (Sweden, USA) . . . . .	568
Efficient hydrogen production from methane over iridium-doped ceria catalysts synthesized by solution combustion G. Postole, T.-S. Nguyen, M. Aouine, P. Gélín, L. Cardenas and L. Piccolo (France) . . . . .	580
Hydrocarbon adsorption and NO <sub>x</sub> -SCR on (Cs,Co)mordenite R.M. Serra, S.G. Aspromonte, E.E. Miró and A.V. Boix (Argentina) . . . . .	592
Decontamination of wastewaters containing synthetic organic dyes by electrochemical methods. An updated review E. Brillas and C.A. Martínez-Huitle (Spain, Brazil) . . . . .	603
Corrigendum to "C-doped hollow TiO <sub>2</sub> spheres: In situ synthesis, controlled shell thickness, and superior visible-light photocatalytic activity" [Appl. Catal. B: Environ. 165 (2015) 715–722] Y. Zhang, Z. Zhao, J. Chen, L. Cheng, J. Chang, W. Sheng, C. Hu and S. Cao (PR China) . . . . .	644